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ROYAL COLLEGE
—OF—
Physicians & Surgeons

—IN AFFILIATION WITH—
QUEEN'S UNIVERSITY,
KINGSTON, CANADA,

—AND—
UNIVERSITY OF TRINITY COLLEGE,
TORONTO.

—♦—♦—♦—
CALENDAR.



SESSION 1890-91.

—♦—♦—♦—
KINGSTON :
PRINTED AT THE BRITISH WHIG OFFICE.
1890.

Royal College of Physicians and Surgeons.

In Affiliation with Queen's University and University of
Trinity College, Toronto.

THIRTY-SEVENTH SESSION, 1890-91.

- FIFE FOWLER, M.D., L.R.C.S., EDIN.,
*Professor of Theory and Practice of Medicine, and PRESIDENT of the
Faculty.*
- MICHAEL LAVELL, M.D.,
Emeritus Professor.
- HON. MICHAEL SULLIVAN, M.D., F.R.C.P.S.K.,
(Surgeon to the Hotel Dieu),
Professor of Principles and Practice of Surgery.
- ALFRED S. OLIVER, M.D.,
(Surgeon to the Kingston Hospital),
Professor of Materia Medica, Therapeutics and Pharmacy.
- THOMAS R. DUPUIS, M.D., F.R.C.P.S., and M.R.C.S., ENG.,
(Surgeon to the Kingston Hospital),
Professor of Clinical Surgery.
- PROF. GOODWIN, Queen's University,
Professor of Chemistry.
- PROF. FOWLER, Queen's University,
Professor of Botany.
- KENNETH N. FENWICK, M.A., M.D., M.R.C.S., ENG., F.O.S., EDIN.,
(Surgeon to the Kingston Hospital),
Professor of Obstetrics and Gynæcology.
- CHAMBERLEN A. IRWIN, M.D., (QUEEN'S), M.D.C.M., (TRINITY), F.R.C.P.S.K.
(Surgeon to the Kingston Hospital),
Professor of Clinical Medicine.
- WM. H. HENDERSON, M.D., M.R.C.S., ENG.,
Professor of Physiology.
- R. W. GARRETT, A.M., M.D.,
Professor of Anatomy.
- H. J. SAUNDERS, M.D. M.R.C.S., ENG.,
Professor of Medical Jurisprudence and Sanitary Science.
- D. E. MUNDELL, B.A., M.D.,
Lecturer on Histology and Surgical Anatomy.
- J. C. CONNELL, A.M., M.D.C.M.,
(Surgeon to Eye and Ear Dept., Kingston Hospital),
Lecturer on Diseases of the Eye and Ear.
- W. G. ANGLIN, M. D.,
Professor of Pathology.
- EDWARD RYAN, B.A., M.D.,
Demonstrator of Anatomy.

ANNOUNCEMENT.

The Thirty-Seventh Session of this College will commence on Monday, October 1st, 1890. The Introductory Lecture will be given at 3 P.M. in the Convocation Hall of Queen's University, on University Day, in connection with the opening of the University, by Dr. A. Holford Walker, Toronto.

THE "ROYAL COLLEGE OF PHYSICIANS AND SURGEONS, KINGSTON," being separately incorporated and possessing independent powers and privileges, confers upon its own students, and students from other Colleges possessing the necessary qualifications, the Diplomas of "Licentiate" and "Fellow." Its affiliation with Queen's University and with the University of Trinity College, Toronto, enables its students to obtain also the Degrees of *Doctor of Medicine* and *Master of Surgery* from either of these Universities, by passing the requisite examination.

Certificates of attendance at this College are recognized by the Royal College of Surgeons of London and Edinburgh, so that those holding the License of the College, as well as those possessing the Degree of M.D. from Queen's University, are entitled to all the privileges in Great Britain that are accorded to the students and graduates of other Colonial Colleges.

The Faculty announces with great pleasure that the Royal College occupies very commodious premises immediately adjacent to Queen's College and the Hospital. The Dissecting Room is very large and well lighted and ventilated; the class rooms are commodious and comfortable, and seated with the most modern pattern of students' class chairs. The large Museum, and Histological and Pathological Laboratory, recently fitted up, is on the first floor, and is supplied with all the necessary modern apparatus for the practical teaching of

these important branches of the Medical Curriculum—microscopes, microtomes, warming stage, moist chambers, staining fluids, mounting materials, and various other appliances. Students are afforded superior advantages for examining morbid specimens, and for the study of these two branches of Science; and in fact the improvements made throughout the establishment render this College second to none in point of convenience and facilities for study.

Instruction in every branch is given by Lectures, Recitations and Clinical teaching, and is made as thorough and practical as possible. The Faculty, having now at their command all the apparatus and appliances necessary in every branch of the Curriculum for imparting a sound medical education, are in a position to offer to students all the advantages to be obtained anywhere else in the Dominion.

The abundant supply of dissecting material furnished by the Penitentiary, Jail, Hospital and other public institutions in the neighborhood affords unrivalled advantages for the study of Practical Anatomy, the true foundation of all medical knowledge.

The Kingston General Hospital and Hotel Dieu, both within a few minutes' walk of the College, are open to the students, and offer every facility for the prosecution of Clinical studies. Students, if they so desire, can visit the Penitentiary Hospital with DR. STRANGE, and the Insane Asylum with DR. CLARKE, the Superintendent, in addition to visiting the other Hospitals.

The General Hospital has at present accommodation for 150 patients; its capacity will be largely increased by the new wing now in course of construction. The operating theatre is large and well lighted, and so arranged as to enable students to see clearly all the details of the various operations. The other institutions referred to have a large number of patients constantly under treatment.

As proofs of the superior quality of the instruction given in this School, the Faculty points with pride to the high positions taken by its students at the examinations of the Medical

Council of Ontario, and of the Royal College of Surgeons of England, as well as to the professional success of its graduates everywhere.

Kingston is, moreover, a healthy and pleasant city to live in, free from the attractive amusements that interfere with study, and from the inducements to vice found in larger cities; while the cheapness of living is such as to commend it to the notice of all intending students of medicine.

Good board in respectable houses may be obtained at prices ranging from \$2.50 to \$4 per week, and other necessities at proportionate figures.

CURRICULUM.

Candidates for the Degree of the University or the Diploma of the College must have completed a period of four years' study, which must comprise four winter sessions and one summer session, and have passed the Matriculation Examination of Queen's College, which is as follows :

English Language, Grammar and Composition.
 Arithmetic, with Vulgar and Decimal Fractions.
 Algebra, including Simple Equations.
 Geometry, first two books of Euclid.
 Latin, Grammar and Translation (Cicero, In Catalinam, Bk. II ; Virgil, *Æneid*, V ; Cæsar, *Bellum Gallicum*, I, 1-33.
 Natural Philosophy, as in Stewart's *Physics*, or one book in Greek, French or German.

[Graduates and Matriculants in Arts from a recognized University, and those who have passed the Matriculation Examination of the Medical Council of Ontario, are not required to pass the above Matriculation Examination.]

This examination must have been passed before a student can be admitted to any of the professional examinations, although lectures may be attended before passing this Matriculation Examination.

In the case of Graduates in Arts, a period of *three years* only will be required to complete their Medical Curriculum.

Every candidate must have given regular attendance on Full Courses of Instruction in the following Departments for the periods stated, during at least three sessions :

I.	Principles and Practice of Surgery.....	} Two full Courses of six months each.
II.	Theory and Practice of Medicine.....	
III.	Obstetrics and Diseases of Women and Children....	
IV.	Physiology	
V.	Anatomy (descriptive).....	
VI.	" (practical).....	
VII.	Materia Medica, Therapeutics and Pharmacy.....	
VIII.	Chemistry (theoretical).....	
IX.	Clinical Surgery.....	} Two Courses of 50 Lectures each.
X.	Clinical Medicine.....	
XI.	Medical Jurisprudence.....	} One Course of three months.
XII.	Practical Chemistry.....	
XIII.	Botany.....	} 50 Lectures.
XIV.	Histology (summer session)	
XV.	Sanitary Science (summer session).....	25 Lectures.
XVI.	Pathology.....	25 Lectures.
XVII.	Medical and Surgical Anatomy.....	50 Lectures.
XVIII.	Hospital Attendance	18 months.

The above course of study may have been pursued either wholly at this College, or partly here and partly at some other recognized Medical School. In the latter case, at least one full session must have been spent at this College.

Certificates of attendance on lectures are received from incorporated Medical Schools in the British Dominions, and others recognized by British Universities and licensing Colleges. Other certificates of attendance on Lectures may be admitted at the discretion of the Faculty.

All students must present evidence of having compounded medicine for a period of six months, in the office of a regularly qualified Medical Practitioner, and of having attended at least six cases of Midwifery. Students must also present evidence of having attended six post mortem examinations, as well as certificates showing a practical knowledge of the use of the microscope and ability to prepare microscopic specimens.

Students attend the Lectures on Chemistry and Botany at the University, and can, if they wish, attend those on Zoology also, without additional charge.

EXAMINATIONS AND GRADUATION.

Every candidate intending to appear at the Final Examination must, on or before the 5th day of March in the year in which he proposes to graduate, furnish a declaration under his own hand that he is twenty-one years of age, or that he will be so before the day of graduation, accompanied by a certificate of good moral character, a statement of his medical studies, with proper certificates thereto, and a Thesis on some medical or surgical subject, composed by himself and in his own handwriting.

There are three examinations—a Primary at the end of the second Session, an Intermediate at the end of the third Session, and a Final at the end of the fourth or last Session—and in each of these candidates are examined orally and in writing. Graduates in Arts may pass the first and second examinations at the end of the second Session.

The Primary examination includes Botany, Institutes of Medicine, Theoretical Chemistry and Histology.

The Intermediate examination includes Materia Medica, Anatomy and Practical Chemistry.

The Final examination includes the Principles and Practice of Surgery, Theory and Practice of Medicine, Obstetrics, Sanitary Science, Medical Jurisprudence, Medical and Surgical Anatomy, and Pathology.

Students taking the Medical Council examinations are recommended to take the above Primary and Intermediate classes during the first two years of their course, and to take the examinations simultaneously with the Council examination.

No candidate will be admitted to any of the foregoing examinations without having passed the Matriculation examination.

The Final examination will not take place until the candidate has completed his fourth or last session.

REQUISITES FOR THE FELLOWSHIP.

Before being admitted to the professional examination for the Diploma of F.R.C.P.S., the candidate must produce evidence of being a graduate in Arts (or undergo an examination equivalent thereto) and of having been engaged in the practice of the profession at least five years.

FEES.

The Fees for the different classes, etc., are as follows :

Registration Fee, payable once only.....	\$ 5 00
Anatomy (per session).....	12 00
Institutes of Medicine..... " "	12 00
Materia Medica " "	12 00
Principles and Practice of Surgery.. " "	12 00
Theory and Practice of Medicine... " "	12 00
Obstetrics and Diseases of Women.. " "	12 00
Clinical Medicine..... " "	12 00
Clinical Surgery..... " "	12 00
Chemistry " "	12 00
Medical Jurisprudence..... " "	6 00
Practical Anatomy..... " "	8 00
Practical Chemistry..... " "	6 00

Medical and Surgical Anatomy.....	\$10 00
Botany.....	6 00
Sanitary Science.	4 00
Histology.....	8 00
Pathology.....	6 00

Payment for two full courses in any class, and attendance in the same, entitles the student to a perpetual ticket for that class. Practical Anatomy, Theoretical and Practical Chemistry, Histology and Botany are exceptions, and for these payment is required every year during which they are taken.

The Kingston General Hospital may be attended by students during the whole period of study for one payment of \$10 at the commencement.

Diploma of Licentiate of the College.....	\$20 00
Degree of M.D. and C. M.....	30 00
Fellowship of College.....	50 00

All graduates in medicine of this College, in good standing, can obtain the Licentiate of the R. C. P. S. on paying to the Registrar the fee of \$20.

In addition to the regular fees each student will be required to pay annually the sum of one dollar, to be devoted to the maintenance of the Gymnasium, the College Campus and the Annual Sports.

All fees are payable to the Treasurer of the College, and are expected to be paid in advance.

PRIZES.

1. At the examinations on Final Subjects a Gold and a Silver Medal are given every year.

2. At the Primary Examination, for the best examination in Anatomy, one prize of the value of \$15.

3. At the Intermediate Examination,—

(a) Two House Surgeoncies of the Kingston General Hospital, six months each ; these include board and lodging and the opportunities for study.

(b) For the best examination in Anatomy, one prize of the value of \$15.

In future the Senior and Junior Demonstrators of Anatomy will be selected at the commencement of each session from the best and most industrious students.

4. At the end of the first session, a Silver Medal, the examination being on Anatomy, Physiology and Materia Medica. A special prize is also offered for the best dissected preparation, if of sufficient merit.

All students competing for the above prizes must be registered students proceeding to a degree in this College. All particulars relating to the different prizes will be announced by the Faculty at the beginning of the Session.

The Medals have been kindly presented by a graduate of the College, Dr. Murdoch Matheson, Queensland, Australia.

Prizes in Pathology, Practical Chemistry, Medical Jurisprudence and Sanitary Science are offered by Robson Roose, M.D., LL.D., London, and Rivers Willson, Ph. D., Oxford. For information on these and other University Prizes, open to Students of Medicine, consult the University Calendar.

STUDENTS' APPOINTMENTS.

Out-Door Dressers.

Dressers in Eye and Ear Department.

Surgical Dressers. Final Students will be arranged in classes to act as dressers in the Surgical wards where they will have an opportunity of practising bandaging and the use of other Surgical appliances.

Clinical Clerks,—

Medical and Gynæcological.

These will be appointed from among the Final students to take charge of cases in the Medical and Gynæcological wards.

Prosecutors to chair of Anatomy (4), to each of whom a Diploma of Merit is awarded.

Assistants in Practical Histology.

“ “ Physiology.

“ “ Chemistry.

NOTICE.

The Examinations of this College will be held immediately before the Examinations of the Medical Council, which will commence in the City of Kingston in April, 1891.

In order that intending students may understand the relation of the Medical Council to the College, the Registrar desires to state that all who desire to practice medicine in Ontario must pass the Matriculation and other examinations of the Medical Council. The degree of M.D., however, qualifies for practice in the United States without the examination of the Medical Council being submitted to.

All applications with reference to Medical Studies to be made to the President of the College.

UNIVERSITY OF TRINITY COLLEGE, TORONTO.

DOCTOR OF MEDICINE AND MASTER OF SURGERY.

The Candidate for these Degrees must have matriculated and pursued a course of study similar to that required by Queen's University for the same Degrees.

Examinations for candidates from the Royal College of Physicians and Surgeons, of Kingston, will be held in Kingston simultaneously with those held in Toronto, but candidates for the medals will be required to take the examinations in Toronto. Candidates examined in Kingston may be admitted to the degree of M.D.C.M. *in absentia*.

Those desiring further information may obtain it by consulting the Trinity College Calendar.

COURSE OF INSTRUCTION.

I. THEORY AND PRACTICE OF MEDICINE—(PROF. FOWLER)—3 to 4 p.m.

This course consists of 100 Lectures, embracing the following divisions, viz.: The General Principles of Medicine, the Nature and Cause of Disease, Symptoms, Intercurrent Affections during the course of a disease, Diagnosis, Means of Prevention and General and Special Treatment; together with the Classification of Diseases, the Morbid Changes in the different organs and structures of the body affected, and the Hygienic Management of Patients.

These Lectures are illustrated by plates, morbid specimens and models of diseased parts.

2. PRINCIPLES AND PRACTICE OF SURGERY—(PROF. SULLIVAN)—4 to 5 p.m.

This course consists of 100 Lectures, part of which will be given in the class room of the Royal College and part in the Hotel Dieu Hospital. In the latter institution patients illustrating the Lectures will be exhibited to the class and operations performed in the presence of the students.

These Lectures, besides the Principles and Practice of Surgery, will include a course of Surgical Anatomy and Surgical Pathology, illustrated by plates, models and specimens, explaining the most recent theories. The use of instruments and surgical apparatus and appliances is taught; the chief operations are performed on a cadaver, and advantage is taken to give a concise and practical course in special surgery, introducing the latest and most improved operations and modes of treatment, with the use of such instruments as are employed in special surgery.

3. OBSTETRICS AND DISEASES OF WOMEN—(PROF. K. N. FENWICK)—2 to 3 p.m.

This course consists of 100 Lectures, embracing the Principles and Practice of Obstetrics and a full course on Gynæcology, illustrated by drawings, models, the use of the artificial pelvis, etc.

Ample opportunities will be afforded to the students for studying this important branch practically, as they will be arranged in classes to attend the Obstetric practice of the Hospital.

Full instructions will be given for the after-management of Obstetric Cases; and the accidents and diseases of that critical period will be properly discussed, as also the diseases of infancy and early childhood.

4. MATERIA MEDICA, THERAPEUTICS AND PHARMACY—(PROF. OLIVER)—10 to 11 a.m.

In this course, which consists of 100 Lectures, all the important drugs used in medical, surgical and obstetrical practice will be fully described and their properties, preparations and doses given. Their therapeutic action, and the conditions in which a particular medicine of a certain class is more suitable than others of the same class, will receive special attention. Instruction in Prescription Writing forms a characteristic feature of the Materia Medica course.

This course will be illustrated by plates, and specimens of the various drugs and chemicals used in medicine.

5. ANATOMY—(PROF. GARRETT)—9 to 10 a.m.

Anatomy is taught in the most practical manner possible.

Five Lectures a week are given in the Anatomy class-room, and are fully illustrated by recent dissections on the cadaver, and also by plates, drawings and preparations.

Four of the best dissectors among the third year students are chosen each session as *prosectors*, and these, under the direction of the Professor, make careful dissections of the parts to be brought before the class. Thus students not only hear a description of the tissues of the body, but see them properly dissected and lying in their natural relations to each other. Every facility for studying Anatomy is afforded the students, and prizes are given at the end of the Session for the best examinations passed.

6. INSTITUTES OF MEDICINE—(PROF. HENDERSON)

—5 to 6 p.m.

PHYSIOLOGY—100 Lectures.

This includes a full course of didactic lectures on Physiology, practical demonstrations, experiments and vivisections.

Students are instructed in the use of various physiological appliances, such as the sphygmograph, spirometer, manometer, etc., and everything is done, as far as time will permit, to make them thoroughly acquainted with Modern Physiology, its methods, its deductions, and the basis on which the latter rest.

The minute anatomy of the various tissues and organs will be illustrated by models, diagrams, and magnificent images thrown on a screen by means of the sciopicon.

7. CHEMISTRY—(PROF. GOODWIN)—9 to 10 a.m.—100 Lectures.

This course is taken in the classes of Queen's University, and comprises Chemical Physics, Chemical Philosophy, Inorganic and Organic Chemistry, and will be full and complete in every particular.

The Professor possesses abundant apparatus for experimental illustrations, being completely furnished with all the modern inventions for chemical investigation. All the lectures are fully illustrated by actual experiments.

8. MEDICAL JURISPRUDENCE—(PROF. SAUNDERS)— 1 to 2 p.m. Tuesday and Thursday—50 Lectures.

This course includes documentary and oral evidence, identification, real and apparent death, autopsies, the taking down of evidence; the appearance of wounds and other external injuries before and after death, effects of suffocation, drowning; the detection of blood stains, seminal fluid, etc.; the evidences of rape, criminal abortion, concealment of pregnancy and infanticide; insanity, feigned diseases, impotence, sterility, legitimacy, survivorship, life assurance, malpractice, and Medical Toxicology. The lectures are illustrated by plates and specimens when necessary.

9. PRACTICAL ANATOMY—(DR. RYAN).

The Dissecting Room will be open from 8 a.m. to 6 p.m. for the use of the students; and instructions will be given every day in dissecting, and in the details of Practical Anatomy, by the Demonstrator or his assistants. Students are furnished with materials for dissection, of which there is always an abundant supply in the institution.

10. PRACTICAL CHEMISTRY—(PROF. GOODWIN).

Thorough instruction is given in the splendid new Laboratory of the University, under the personal supervision of the Professor. The course is entirely Laboratory work, and includes blowpipe manipulations, the use of apparatus, qualitative and quantitative analysis, toxicological investigations, etc.

11. CLINICAL MEDICINE—(PROF. IRWIN)—11 a.m. daily except Saturday during the whole Session—100 Lectures.

1. Clinical study of Diseases, with reports of cases.
2. The instruments employed in the diagnosis of disease.
3. Physical diagnosis of diseases of the heart and lungs.
4. Physical diagnosis of diseases of the abdomen.
5. The chemical and microscopical examination of the blood, expectoration, vomited matters and urine.

12. CLINICAL SURGERY—(PROF. DUPUIS)—10 to 11 daily except Saturday during the whole Session.

These lectures are given upon the various surgical cases in the wards of the General Hospital. They are delivered at the bedside or in the Theatre of the Hospital. When the lectures are delivered in the Theatre the patients are brought in and their diseases exhibited to the class; the symptoms, diagnosis, treatment, course and probable termination of them pointed out, and all the circumstances attending their cases thoroughly impressed upon the minds of the students. When requiring it the lectures are elucidated by plates, surgical apparatus, morbid specimens, models, etc. All operations are performed in presence of the class.

Special instruction will be given in the application of splints, bandages and antiseptic appliances.

13. HISTOLOGY—(DR. MUNDELL).

This course is now given in the Summer Session, and lectures will be delivered every day during the whole session.

14. SANITARY SCIENCE—(PROF. SAUNDERS)—Friday.

The course on this subject will be given during the Summer Session.

15. BOTANY—(PROF. FOWLER, of Queen's).

This course is taken in the classes of Queen's University.

The Lectures will be given every day during the first part of the Session, and will be illustrated by drawings, microscopic sections, dried specimens, and living plants as far as practicable.

16. PATHOLOGY—(PROF. ANGLIN)—11 to 12 a.m. on Mondays.—50 Lectures.

This course includes post mortem examinations and the gross and microscopic appearance of diseased specimens.

Instruction in Medical and Surgical Pathology will be given by means of lectures and demonstrations upon recent morbid specimens, and upon many valuable preparations already in the Museum of the College.

Ample opportunities will be afforded the students to acquire a thorough practical knowledge of the microscopical appearance and modes of preparation of the different pathological conditions of the various organs and tissues of the body.

17. MEDICAL AND SURGICAL ANATOMY—(DR. MUNDELL)—50 Lectures.

This course is given in accordance with the requirements of the Medical Council of Ontario. It is chiefly for final students, and embraces all the important parts of Anatomy as applied to Medicine and Surgery. The situation of the different internal organs, the course of Arteries, Veins and Nerves, and the prominent points of the body which serve as guides to the Physician and Surgeon, will all be pointed out on the cadaver and the course made as practical as possible.

BOOKS RECOMMENDED TO STUDENTS.

ANATOMY—Gray, \$6.50 ; Heath, \$4.50 ; Wilson, \$4 ; Quain, \$10.80 ; Holden.

INSTITUTES OF MEDICINE—Kirke's Physiology, \$4.50 ; Foster's McKendrick's.

MATERIA MEDICA—Bartholow's Materia Medica, U. S. Dispensatory, Biddle's Materia Medica, and Potter's Materia Medica.

PRINCIPLES AND PRACTICE OF SURGERY—Walsham and Bryant and Erischen ; for reference any of the larger works. For "Minor Surgery," Heath's Minor Surgery and Bandaging.

THEORY AND PRACTICE OF MEDICINE—Robert's, \$5 ; Bartholow.

OBSTETRICS—Galabin's Midwifery, \$3 ; Edis' Diseases of Women, \$3 ; Eustace Smith on Diseases of Children, \$5.

PATHOLOGY—Bowlby, Green, Delafield.

CHEMISTRY—Goodwin's Elements of Chemistry.

BOTANY—Gray's Structural and Systematic Botany, vols. 1 and 2.

MEDICAL JURISPRUDENCE—Reese's Medical Jurisprudence, \$3 ; for reference Taylor or Tidy.

SANITARY SCIENCE—Wilson ; Parke's, \$6.

HISTOLOGY—Klein, \$1.50.

PRACTICAL ANATOMY—Heath, \$4.50.

MUSEUM.

The Museum contains numerous and valuable Histological and Pathological Specimens, collected both from Hospital and private practice. A large number of models of plaster of Paris, wax and papier-mache, illustrating Ulcers, Tumors, Aneurisms, etc., belong to the Pathological Department. Anatomy is fully illustrated by models of dissections of various parts of the body, especially the Brain, Heart and Lungs.

Specimens of Gall-Stones, Abscess of Liver from Acute Hepatitis, Petrification of the Gall-Bladder, Diseased Lungs, Affections of the Urinary Organs, Congenital Malformation of the Brain, Rectum and other organs ; Abscesses of Kidneys,

Ulceration of Intestines and other soft parts, and of bones ; Diseases of Joints, Nodes, Calculi, etc., are amongst the many interesting objects contained in the Museum.

LIBRARY.

The Library of the Royal College, to which students have access, is furnished with the Standard Text-Books and works of reference, and always contains the leading Medical and Surgical publications and periodicals of the day.

SUMMER SESSION.

The Summer Session will commence in the second week of April.

The importance and advantages of a Summer Session are now so fully recognized that the Faculty has decided to hold out further inducement to students attending that course of lectures. In addition to the classes of Practical Chemistry and Botany, full courses of lectures will be given in Sanitary Science and Histology ; and an opportunity will be afforded those students desirous of taking advantage of receiving instruction in Ophthalmology and Otology by DR. CONNELL, who will deliver a course of lectures on these subjects. Pass examinations in these branches will be held at the close of the Summer Session. Clinical instructions of a practical character will be given at the Hospital, special attention being directed to bandaging, antiseptic dressings, the use of the Stethoscope, Laryngoscope, etc. Senior students will also have the opportunity of attending Obstetrical cases and of acting as Clinical Clerks.

AMBULANCE LECTURES — By W. H. HENDERSON,
M.R.C.S.E., Surgeon P.W.O. Rifles.

During the summer session lectures on first aid to the wounded will be delivered in the Amphitheatre of the Hospital every Thursday at 3 p.m.

For Fees a fixed sum will be charged, which will entitle the student to attend all the classes during the summer session.

MEDICAL COUNCIL REGULATIONS.

On and after July 1st, 1887, every one desirous of being registered as a Matriculated Medical Student in the Register of this College, except as hereinafter provided, must present to the Registrar, Dr. Pyne, Toronto, an official certificate of having passed the 2nd Class Teachers' Examination, with Latin option, whereupon he shall be entitled to be so registered, upon the payment of twenty dollars and giving proof of his identity.

Graduates in Arts, or students having matriculated in Arts in any University in Her Majesty's dominions, are not required to pass the Matriculation examination, but may register their names with the Registrar of the College upon giving satisfactory evidence of their qualifications and paying the Matriculation fee of twenty dollars.

Every Medical Student, after matriculating, shall be registered in the manner prescribed by the Council, and this shall be held to be the beginning of his medical studies, which shall date from such registration.

Every Student, after his matriculation has been registered, must spend a period of FOUR YEARS in actual professional study.

EVERY STUDENT WHO HAS NOT ATTENDED ANY RECOGNIZED MEDICAL SCHOOL PRIOR TO JUNE, 1880, SHALL BE REQUIRED TO ATTEND MEDICAL LECTURES FOR AT LEAST FOUR SESSIONS OF SIX MONTHS EACH, EXCEPT IN THE CASE OF GRADUATES IN ARTS.

Each Six Months' Course shall not consist of less than one hundred lectures.

Every student must attend the undermentioned Course of Lectures in a University, College or School of Medicine approved of by the Council, viz. :

Two courses of *Six Months* each upon Anatomy, Practical Anatomy, Physiology (including Histology), Theoretical Chemistry, Materia Medica and Therapeutics, Principles and Practice of Medicine, Principles and Practice of Surgery, Midwifery and Diseases of Women and Children, Clinical Medicine, and Clinical Surgery.

One course of *Six Months* or *two* courses of *Three Months* each upon Medical Jurisprudence, and *one* course of *Three Months* upon Practical Chemistry and Botany.

One course of not less than *Twenty-Five Demonstrations* upon Microscopic Anatomy, Physiological and Pathological, and *one* course of twenty-five lectures upon Sanitary Science.

Every student, before being admitted to the Final Examination hereinafter mentioned, must have spent a period of Six Months in compounding medicines.

Every candidate will be required to prove that he has carefully dissected the whole adult human body.

He must have attended the practice of a General Hospital for twenty-four months.

He must have attended six cases of Midwifery.

He must, before being registered as a member of the College of Physicians and Surgeons of Ontario, have passed all the examinations hereinafter prescribed; and he must have attained the full age of twenty-one years.

Graduates in Arts who have attended one course of lectures on Botany and Practical Chemistry, and two courses on Theoretical Chemistry, and who have already passed an Examination on these subjects in any of the recognized Colleges, will not be required to undergo a second examination on the same, provided they produce tickets for the courses of lectures stated, and a certificate of having passed an examination on these subjects.

All persons from recognized Colleges outside the Dominion of Canada, who desire to qualify themselves for registration, must pass the Matriculation Examination recognized by the Council; and must attend thereafter, one or more full Winter

Courses of Lectures in one of the Ontario Medical Schools, so as to complete fully the Curriculum required by the Council all the Examinations hereinatter prescribed.

Nothing shall exempt residents of Ontario, who, after 1887, choose to pursue their studies outside of the Province of Ontario, from passing four years in the pursuit of their professional studies: such four years to commence at the date of their passing the Matriculation Examination before the Examiners appointed for that purpose by the Council.

1. Hereafter the Professional Examinations shall be divided into a *Primary* and a *Final* Examination.

2. The *Primary* Examination shall be undergone at the end of the Second, and the *Final* at the end of the Fourth, Winter Session.

3. The following branches shall be embraced in the Primary Examination, viz.:

Descriptive Anatomy. Physiology and Histology. Theoretical Chemistry. Practical Chemistry. Botany. Toxicology. Materia Medica and Therapeutics.

4. Each candidate for the Primary Examination will be required to present, with his Lecture ticket, a certificate of having undergone examination at the School he has attended, at the close of his first Winter Session, on Anatomy, Physiology, Chemistry, Materia Medica and Botany, and at the end of his third session a certificate that he has undergone an examination on the final branches. Such examination shall not, however, in any way affect the Primary or Final Examinations of the Council. Also a certificate of ability to mount Microscopic Specimens. Each Candidate for Final Examination must present a certificate of attendance at six post-mortem examinations, and a certificate of ability to draw up a report of a post-mortem examination; also a certificate of having reported satisfactorily on six cases of Clinical Medicine and six cases of Clinical Surgery.

5. The following branches shall be embraced in the Final Examination:

Medical and Surgical Anatomy. Theory and Practice of Medicine and Sanitary Science. Medical Pathology. Surgery (other than operative) and Diseases of Women and Children. Midwifery, operative. Medical Jurisprudence.

Any candidate who passes creditably in three or more branches, but fails in the others, shall receive credit for the subjects so passed, and be compelled to pass in the other branches *only* at a subsequent examination.

The following scale of Fees has been established by the Council of the College of Physicians and Surgeons of Ontario:

Students examined by the various Colleges prior to July, 1870 . . .	\$10 00
After July 1st, 1881, in all cases	20 00
Primary Examination	20 00
Final Examination	30 00

All fees to be paid to the Treasurer of the Medical Council prior to the several examinations.

EXAMINATION PAPERS.

MEDICAL JURISPRUDENCE.

1. Diagnose burns before and after death ; wounds before and after death ; vital ecchymosis from post-mortem ecchymosis.

2. Illustrate a case in which circumstantial evidence is conclusive. Illustrate between facts and opinions.

3. What are the post-mortem appearances to be found in a child that survived its birth from the 8th to the 10th day ?

4. At a post-mortem, how would you proceed to remove Larynx and Trachea ?

HONOR.—Explain fully the effects produced on the body by the gases of decomposition.

SANITARY SCIENCE.

1. Describe good milk.

2. What are the effects on the public health of impure water ?

3. What are the requirements of a good house drain ?

HONOR.—What sanitary precautions would you take in a case of Scarlatina Anginosa to prevent the spread of the disease, (a) as regards patient, (b) as regards surroundings ?

PHYSIOLOGY.

1. Contrast gastric with pancreatic digestion, and describe the changes that take place in the cells of the pancreas during the different phases of activity and repose.

2. (a) Explain the formation of the pulse at the wrist. (b) Describe a normal sphygmographic tracing. (c) State under what circumstances pulsation may occur in certain veins.

3. How would you proceed to demonstrate the presence of oxalate of lime in the urine, of sugar in the liver, of fibrine in the blood, and of CO_2 in expired air ?

4. Mention the functions assigned to the grey matter on the anterior, middle and posterior surface of the brain, and give

an account of Gaskell's researches on the relation between the sympathetic and cerebro-spinal nervous system.

5. Describe the structure of a graafian follicle, and mention the changes that take place in it after the discharge of an ovum.

PRACTICE OF MEDICINE.

1. Give the local treatment of Scarlatina Anginosa.

2. Diagnose Varioloid from Varicella.

3. Give prominent symptoms of Perityphilitis.

4. Describe two distinct pathological conditions within the cranium inducing Apoplexy.

5. State the different morbid conditions producing hemorrhage from the stomach, and give their chief diagnostic marks.

6. What morbid condition of the heart is often induced by chronic Pulmonary Emphysema, and mention the effects consequent on this morbid condition of the heart.

7. What morbid condition of the heart is associated with Cirrhosis of the kidney, and what effects follow this condition of the heart ?

8. Diagnose Mitral Regurgitation. State the effects of it on the heart and elsewhere.

MATERIA MEDICA.

1. Describe the physiological action of Digitalis, Nitroglycerine, and Atropia.

2. What medicine is derived from the Willow tree? What forms of the medicine are used in practice, and give their therapeutic uses?

3. Give the composition of Pil. Cathartic Co., Dover's Powder, Seidlitz Powder, Paregoric, and Hive Syrup.

4. Compare Chloroform with Ether as Anæsthetics, explaining their indications, contra-indications and dangers.

5. Give uses and doses of Sulphonal, Chloral, Liq. Arsenicalis, Picrotoxin, Hyoscyamine, and Phenacetin.

6. Write a prescription for Bronchitis containing Tinct. Benzoin Co.; and an alterative tonic containing Quinine and Potass. Iodid.

ANATOMY.

1. Name the bones entering into the formation of the facial region of skull. Name the structures attached to the Zygomatic Arch.

2. Give the attachments of the following ligaments :—Internal Lateral of jaw ; Internal Lateral of elbow ; Great Sacro-sciatic ; Anterior Annular at ankle ; also the attachments of Superior Tarsal Cartilage of eyelid.

3. Give origin and insertion and nerve supply of the following muscles :—Superior Oblique of eye ; Digastric ; Scalenus Anticus ; Flexor Profundus Digitorum ; Accelerator Urinæ ; Pectineus ; Peroneus Longus.

4. Name the primary branches of the Abdominal Aorta. Give the blood supply to (i.) stomach, (ii.) Colon, (iii.) Rectum, naming the source from which each blood vessel is derived.

5. In a dissection of the brain name the structures brought into view on complete removal of the Velum Interpositum.

6. Outline on the accompanying diagram (i.) the anterior and lateral region of liver ; (ii.) the Stomach in moderate distension.

7. State how you would localize on external surface of skull the ascending frontal and ascending parietal convolutions of the brain.

SURGERY.

1. Give the causes, symptoms and treatment of Shock.

2. Give the symptoms and treatment of Pott's Disease occurring in the upper dorsal region.

3. State under what circumstances you would consider Nephro-Lithotomy necessary, and describe the Lumbar operation.

4. Give the usual causes of fracture of the base of the Skull, state the symptoms generally present and the treatment to be pursued.

5. Describe the operation for Strangulated Femoral Hernia.

6. State fully the mode of union in fracture of bone.

7. Describe the operation for Supra-pubic Lithotomy and state any advantages it may have over the lateral operation.

8. Classify Tumors anatomically and diagnose a benign from a malignant one.

HISTOLOGY.

1. What is the microscopic composition of blood ?
 2. Give the difference between yellow elastic and white fibrous tissue.
 3. Describe the structure of a medium sized artery.
 4. Describe adenoid tissue.
 5. What are Epithelium and Endothelium ?
 6. Describe the structure and mode of action of an intestinal villus.
 7. Describe the method of preparing and mounting a specimen of striated muscle.
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OBSTETRICS AND GYNÆCOLOGY.

1. Mention some of the causes that may lead to the death of the fœtus in the earlier months of pregnancy. State the symptoms that would lead you to suspect it.
 2. You are called to a patient in the sixth month of pregnancy, who complains of intense headache ; face, hands and lower extremities œdematous ; urine highly albuminous ; patient says she cannot see. What are the dangers, and how would you treat the case ?
 3. What precautions would you adopt before applying the forceps ? Mention some of the indications for their use, and state the dangers.
 4. Describe mechanism of labor in Right Occipito Posterior.
 5. Give the pathology, diagnosis and treatment of Menorrhagia.
 6. Give the causes and treatment of Vesico-Vaginal Fistula.
 7. Give the causes and treatment of Subinvolution of the Uterus.
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CHEMISTRY.

FIRST YEAR.

1. Give an account of two ways of finding the specific weight of a liquid.
2. (a) How is the theoretical specific weight of a gas found ?
(b) Upon what hypothesis is the calculation based ?

3. Upon what grounds has 31.98 been chosen for the atomic weight of sulphur?

4. (a) Calculate the weight of bromine required to convert 200 grams of pure caustic soda into sodium hypobromite, etc. [Br=80, Na=23, O=16.] (b) What are the necessary conditions of the reaction?

5. Describe experiments by means of which the composition by volume of ammonia can be determined.

6. Show by means of formulas the relations between the following:—Sulphuric acid, chlorosulphonic acid, sulphuryl chloride, sulphur trioxide, and ammonium sulphate.

7. (a) Give a tabular list (using formulas) of the compounds of the halogens with hydrogen, with oxygen, and with hydrogen and oxygen. (b) Point out the conclusions which can be drawn from such a table.

8. How are the following substances prepared:—Potassium bromide, potassium chlorate, sodium carbonate, nitric acid, and hydriodic acid? Give equations.

9. Give a classification of proteids, and mention the characteristic properties of these substances.

10. Describe the substances having the molecular formula C_2H_6O , mentioning methods of preparation and characteristic properties.

SECOND YEAR.

N.B.—Candidates must give a written report on each question, explaining the chemical actions involved.

1. Prepare oxygen and illustrate its properties by experiments.

2. Illustrate by experiments the properties of white arsenic.

3. Demonstrate the chief properties of proteids, using white of egg (A).

4. Test for prussic acid the mixture B.

5. Report on the samples of urine C, D and E.

BOTANY.

1. Define each of the four members or parts into which an ordinary flowering plant is divided.

2. By what characters are leaves distinguished?

3. Describe the process of defoliation.
4. What is meant by (1) excurrent, (2) deliquescent stems? Give three examples of each.
5. State the physiological differences between ordinary plants and (1) green parasites, (2) colored or pale parasites.
6. Under what circumstances will a plant (1) produce chlorophyll, (2) cease to produce it or lose it?
7. Describe three arrangements for the securing of cross-fertilization by insects.
8. Mention five chemical elements of plant-food, and describe the purposes which each serves in the growth or physiological processes of the plant.
9. In what parts of plants are reserved materials stored up, and what purposes do they serve? Mention such of these materials as you know to be useful to man.

GRADUATES OF 1890.

Students of the Royal College admitted to the degrees of M.D. and C.M. at Queen's University Convocation, 1890 :

Bell, J. H.....	Kingston.
Camelon, T. P.....	Mishawaka, Ind.
Campbell, J. S.....	Deseronto.
Cameron, W. A.....	Perth.
Chown, A. P.....	Kingston.
Clerihew, E. M.....	W. 47th St., New York.
Coon, D. A.....	Elgin.
Cunningham, D.....	Kingston.
Dixon, A. F.....	Toronto.
Dixon, J. H.....	Brockville.
Dupuis, E. L.....	Seattle.
Earl, W. M.	Winchester.
Gandier, A.....	Merrickville.
Gray, W. A.....	Perth.
Hayunga, Geo.....	400 Canal St., New York.
Herald, Wilson.....	Medicine Hat.
Holdercroft, W. T.....	Deseronto.
Kellock, D.....	Spencerville.
Lockhart, G. D.....	Kingston.
McKenty, Jas.....	Neche, North Dakota.
MacPherson, W. A.....	Dexter, N. Y.
Miller, J. C. S.....	Seattle.
Mitchell, C. T.....	South Bend, Ind.
Morgan, E. M.....	Perth.
Neish, J. G.....	Rochester.
Patterson, J. M.....	Greenbush.
Pirie, H. H.....	Rochester.
Phelan, Leo.....	Ottawa.
Reid, J. D.....	Cardinal.
Shannon, J. R.....	Kingston.
Todd, S. G.....	Pittsburg.
Watts, T. E.....	Wolfe Island.

MEDALISTS.

Gold Medal.....	A. Gandier.
Silver Medal.....	J. R. Shannon.
Silver Medal, 1st year.....	R. S. Minnes.

HOUSE SURGEONS, KINGSTON GENERAL HOSPITAL.

W. E. Kidd.....	
J. Oldham.....	

DEMONSTRATORS OF ANATOMY.

3rd Year.....	A. Carmichael.
2nd Year.....	A. Lockhart.

LIST OF GRADUATES.

M. D.

1855.

Chambers, Daniel.....	Deceased.
Douglas, W. Robert.....	Deceased.
Dunbar, Samuel.....	Deceased.
Herriman, Weston Leroy.....	Lindsay.
Hillier, William.....	Deceased.
Mercer, John G.....	Deceased.
Scott, Wm. S.....	Southampton.
Spafford, H. W.....	Deceased.
McKellar, Dugald.....	Deceased.

1856

Brown, Marshall J.....	Cataraqui.
Campbell, John H.....	Deceased.
Corbett, Geo. H.....	Orillia.
Franklin, Benjamin.....	Port Burwell.
Yates, Octavius.....	Deceased.

1857.

Bell, James M.....	Deceased.
Bowers, Samuel S.....	Fond du Lac, Wisconsin.
Chisholm, H. F.....	Deceased.
Crawford, Joseph.....	Arnprior.
Joy, Sylvanus.....	Tilsonburg.
Laidlaw, Alex. R.....	Deceased.
Lawlor, Michael.....	Deceased.
Macdonald, Alex. R.....	Brighton.
Perrault, Julien.....	San Francisco, Cal.
Thibodo, Oliver.....	Arizona.

1858

Benson, John R.....	Deceased.
Bethune, Alexander.....	Toronto.
Davis, R. H.....	York, Grand River.
Evans, Henry.....	Deceased.
Elmer, Wm. H.....	Bay City, Mich.
Hackett, Joseph.....	Deceased.
Henderson, Donald.....	Winnipeg, Man.
Mostyn, Wm.....	Deceased.
Smith, George.....	Deceased.
Sweetland, John.....	Ottawa.
Sullivan, Michael.....	Kingston.

1859.

Bird, Francis W.....	Deceased.
Boyle, Arthur A.....	Lisle.
Campbell, George.....	
Cluness, Wm. R., B.A.....	Sacramento, Cal.
Day, H. W.....	Trenton.
Ferguson, Charles F.....	Kemptville.

Foster, Robert J.	Deceased.
Henderson, Wm.	Deceased.
Lambert, Robert	Windsor.
Morden, John H.	Deceased.
McLean, Caird R., M.R.C.S. 1879	Meaford.
Sparham, George S.	Kemptville.

1860

Bird, Nelson J.	San Francisco.
Chanonhouse, Thos.	Deceased.
Cranston, James G.	Arnprior.
Dupuis, Thomas R., M.R.C.S. 1881	Kingston.
Giles, John G.	Brockville.
Horsey, Edward H.	Chicago.
McKenzie, Edward.	Smith's Falls.
Roche, Wm. P.	Deceased.
Rose, George S.	Deceased.
Spooner, George D.	Deceased.
Trousdale, Jas. C.	Deceased.

1861.

Anderson, Wm. J.	Winchester Springs.
Blakely, Robert.	Deceased.
Cogan, Jeremiah R.	Deceased.
Corry, Robert.	Deceased.
Deans, William C.	Deceased.
Dunlop, Neil.	Sydenham.
Farrell, John T.	Deceased.
Fraser, John M., B.A., M.R.C.S. 1864.	London.
Kelly, David.	Deceased.
Kelly, Edward J.	Deceased.
Kemp, J. A.	Deceased.
O'Reilly, Anthony.	Deceased.
Parker, Robert.	Stirling.
Ramsay, Robert.	Deceased.
Taylor, Wm. E.	Brisbane.
Thirkell, Wm. G.	Sodus, N.Y.
Weir, Wm.	Deceased.

1862.

Black, Wm. A.	Deceased.
Branigan, P. R.	Deceased.
Chamberlain, Theodore F.	Morrisburg.
Day, B. W.	San Diego.
Fee, S. H.	Kingston.
Harrison, Thomas S.	Selkirk.
Hamilton, David.	Batavia, N.Y.
Johnson, Absalom H. J.	Lockport, N.Y.
Kellock, J. D.	Perth.
Meadows, R. W.	H. M. Service.
McKenzie, Andrew.	Deceased.
Macdonald, J. A.	Port Arthur.
Macpherson, Alexander.	Deceased.
Reily, Adrian.	Welland.
Skinner, Henry.	Deceased.
Spencer, Henry.	Deceased.
Switzer, Wilson Irwin.	Deceased.
Thibodo, Robert.	Winnipeg, Man.
Tracey, Robert.	Belleville.
Young, Daniel.	Conway.

1863.

Aylesworth, Arch R.	Deceased.
Beckett, James	Deceased.
Bray, John L.	Chatham.
Chanonhouse, John	Eganville.
Coleman, Wm. F.	Chicago.
Dickson, John R.	Deceased.
Elwell, W. D.	Deceased.
Ferguson, Ed. G.	Brunswick, Georgia.
Ferguson, R. B.	Deceased.
Howells, Thomas B.	Deceased.
Ingersoll, Isaac F.	Picton.
Irwin Chamberlen A.	Kingston.
Kennedy, Ro'lerick, L. R. C. S. Edin., 1843, M. D.	
Univ. St. Andrew, 1843	Bath.
Kincaid, Robert	Olympia, W.T.
Lavell, Michael.	Kingston.
Litchfield, J. P.	Deceased.
Moore, Andrew	Deceased.
McCammon, James	Deceased.
McLean, Thomas F.	Goderich.
Nichol, James.	Deceased.
Oliver, Alfred S.	Kingston.
Ross, Thomas K.	Fredonia, N.Y.
Ruttan, Joseph B.	Wellington.
Shirley, Joseph W.	Watford.
Smith, John R.	Deceased.
Sullivan, Thomas	Deceased.
Watson, Charles V.	Wellington.
Wilson, John A.	Deceased.
Yates, Horatio	Deceased.
Yeomans, Horace P.	Deceased.

1864.

Bigham, Hugh	Deceased.
Comer, A. T.	New York City.
Davidson, Myers	Florence.
Dunn, Andrew T.	North Augusta.
Fenwick, T. M.	Kingston.
Fox, Edward C.	
Gleeson, James	Deceased.
Grasse, Sydney D.	Deceased.
Hoare, Walter W.	Strathroy.
Milliner, W. S.	Oswego.
McIntyre, Duncan	Wardsville.
Preston, Robert H.	Newboro.
Searls, Abram W.	Deceased.
Taylor, James.	Tara.
Thornton, Wm. M.	Deceased.
Wartman, Philander C.	Deceased.

1865.

Agnew, John.	Deceased.
Bell, Alexander	Lakefield.
Bigham, John.	Deceased.
Bowen, Robert.	H. M. Service.
Deans, George.	Trenton.
Heggie, David.	Brampton.
Horsey, Alfred	Ottawa.
Kertland, Edwin H.	Toronto.

Massie, John	Deceased.
Morden, James B.	Picton.
McLaren, Alexander	
Neish, James.	Kingston, Jamaica.
Reeve, Richard A.	Toronto.
Tracy, Thomas B	Deceased.
Weeks, W. J.	

1866.

Armstrong, Alfred.	Deceased.
Beattie, Wm.	Wayran.
Bell, John.	Deceased.
Darragh, R. J.	Sunbury.
Jones, Henry M.	Marmora.
Kahkewaquonaby.	Hagersville.
Lake, Charles B.	Ridgetown.
Mark, Robert.	Ottawa.
Newton, John	Deseronto.
Price, Robinson B.	Kingston.
Somerville, James A.	Marionette, Wis.

1867

Armstrong, Albert.	Arnprior.
Campbell, Joseph.	Paisley.
Dugdale, John J.	Montreal.
Howell, George W.	Tweed.
Meagher, Daniel.	Montreal.
Monro, John C.	South Finch.
Munro, David.	Perth.
Patterson, James R.	Port Elgin.
Valleau, Geo. Z.	
Wafer, Francis M	Deceased.
Walker, Allen H.	Toronto.

1868.

Abbott, Samuel A.	Deceased.
Bingham, James.	Peterboro.
Booth, Donald B.	Odessa.
Bleasdell, Charles E.	Deceased.
Clark, James.	Bay City, Mich.
Corbett, Henry T.	Deceased.
Dickson, John R.	Deceased.
Erly, Francis W. J.	Deceased.
Johnstone, David.	Kincardine.
Nesbitt, Edward	Deceased.
Oliver, John K.	Deceased.
O'Sullivan, John	Deceased.
Rockwell, Albert.	West Duluth, Minn.
Saunders, Lawrence	Deceased.

1869.

Alexander, James A.	Deceased.
Alway, Enoch.	Binbrook.
Bethune, Henry T.	Clanbrassie.
Bice, Mark	Arva.
File, Albert.	Ameliasburg.
Fraser, Anson S.	Sarnia.
Harvey, Albert E.	Wyoming.
Hendry, George.	Deceased.
Hillier, Solomon C	Bowmanville.
Leavitt, Arven S.	Toronto.
Mann, James	Renfrew.

Purdy, Charles W.	Chicago.
Saunders, Herbert J., M.R.C.S. 1870.	Kingston.
Spooner, Hiram S.	Sutton.
Stewart, Alex. J.	Angus.
Stowell, Olmsby O.	Copenhagen, N.Y.
Vanvlack, Gilbert J.	Deceased.
Wilson, Charles J. C.	Montreal.

1870.

Bridgland, Samuel.	Bracebridge.
Dumble, W. C.	Toronto.
Hodge, George	London.
Matheson, Murdock.	Waverly, N. S. Wales.
Moore, Vincent H.	Brockville.
Potter, Levi.	Enniskillen.
Rutherford, James.	Orono.
Sayers, Alexander.	Marion, N.Y.
Sievewright, James A.	Deceased.
Thornton, Thomas.	Consecon.

1871

Bernard, Gerald.	Newcastle-on-Tyne, Eng.
Chaffey, Ellworth, L.R.C.P., Edin., 1872, L.R.C.S., Edin., 1872.	Ontario, South California.
Day, W. D. P. W.	Harrowsmith.
Fairbairn, Alexander C.	Minneapolis.
Gillies, Neil.	Winnipeg.
Gunsolus, Kenneth.	Detroit, Mich.
Higinbotham, William.	Omenee.
Houston, William R.	Chatham.
Kidd, Edward, L.R.C.P. Edin., 1876, Lic. Mid., 1876.	Pictou.
Lafferty, James.	Calgary.
VanAllen, John R.	Kansas City.
Young, David.	Lower Fort Garry.

1872

Brien, James.	Essex Centre.
Clarke, John.	Peterboro.
Gerin, John.	Auburn, N.X.
Rockwell, Ashbel S.	Rochester, N.Y.
Rourke, Francis.	Dublin, Ont.

1873

David, Alfred.	Atlantic Mines, Mich.
Kennedy, Jacob.	Sackville, N.B.
Lavell, Charles H.	Deceased.
McLennan, Alexander S.	Chicago.
McAdam, S. T.	Battleford.
McMahon, James.	Texarkana, Texas.
Purdy, Alvanly N.	Dunlop, Texas.
Spear, Hugh.	Toronto.
Walkem, W. W.	Nanaimo, B.C.

1874

Claxton, William.	Verona.
Fenwick, Kenneth, M.R.C.S. 1875.	Kingston.
Ford, Herbert Douglas.	Chicago.
Gibson, Andrew M.	Deceased.
Jones, John.	Kemptville.
Lane, Joseph W.	Mallorytown.
McLean, Solomon C.	Spencerville.

1875.

Betts, Alfred H.	Deceased.
Carscallen, Allen B.	Enterprise.
Deynard, Adelbert.	Owen Sound.
Dingman, W. E.	Listowell.
Dowsley, David H., M.R.C.S. 1878.	Kingston.
Masson, Thomas.	Cape Vincent.
Potter, Samuel.	Groves' Corners.
Preston, Richard.	Carleton Place.
Tuttle, Leslie.	Tweed.

1876

Case, George H.	Deceased.
Davis, Ransom A.	Easton's Corners.
Kennedy, Alexander.	Port Arthur.
Murphy, John Bernard.	Belleville.
Potter, Thomas.	Ottawa.
Yourex, John McGill	Tamworth.

1877.

Bowen, George	Seeley's Bay.
Day, Jonathan	Deceased.
Dowsley, George C.	Owen Sound.
Dumble, Thomas H.	Gananoque.
Higgins, Edward M.	Hot Springs, Arkansas.
Holmes, F. S. Leroy	Kemptville.
Hourigan, Andrew R.	Peterboro.
Hubbs, H. A. M.	Bay City, Mich.
Miller, Lindsay F.	Toronto.
McNicholl, Eugene C.	Cobourg.
Phelan, Daniel.	Kingston.
Scovill, Simmons	Rat Portage, Keewatin.

1878.

Beeman, Thomas W.	Smith's Falls.
Bennett, Henry	Sullivan.
Clinton, George	Belleville.
Craig, Hugh A.	Cobourg.
Evans, Henry	Deceased.
Hossie, Thos. R.	Gouverneur, N. Y.
Kennedy, Wm. B.	Chattenham.
Kidd, Peter E.	Midland City.
Lewis, Frederick	Orangeville.
Lynch, Dennis P.	Almonte.
MacArthur, James.	London.

1879.

Abbott, Rodney H.	Comber.
Clark, William	
Cleaver, J. C. C.	Montserrat, Trinidad.
Cleaver, Wm. T.	Wigan, Eng.
Donovan, P. C.	Langdon, North Dakota.
Henderson, W. H., M.R.C.S. 1880.	Kingston.
Horton, Robert N., L. R. C. P. S. Edin., 1886, Lic.	
Mid, 1886, Lic. Fac. P. & S., Glasgow, 1886.	Brockville.
Judson, Geo. W.	Lyn.
Kilborn, Roland.	Toledo.
Lafferty, Wm. A.	Deceased.
Leonard, Raymond.	Napanee.
McCammon, James A.	Gananoque.

McCullough, Wm. S	Deceased.
Newlands, George	Seattle.
Ward, George C. Tremaine.....	Napanee.

1880.

Chown, Henry H.....	Winnipeg.
Clark, J. G.....	Meaford.
Day, Lewis E.....	Deceased.
Dickson, Charles R.....	Toronto
Empey, Charles T.....	Cross Hills, Leeds, England
Galbraith, John E.....	Deceased.
Knight, John H.....	Amherstburg.
McPhadden, Murdoch.....	Belwood.
Odlum, John.....	Sparta, Co. Sincoe.
Reeve, Henry H.....	Almonte.
Waddell, W. H.....	North Augusta.
Wilson, Thomas.....	Tara.

1881.

Alexander, F. R.....	Deceased.
Betts, J. Howard, M.R.C.S. 1883.....	Kingston.
Coughlin, Richard.....	Hastings.
Gibson, W. J.....	Belleville.
Herrington, A. W.....	Deceased.
Jamieson, John.....	Deceased.
Johnston, D. A.....	Deceased.
Lavell, William A.....	Smith's Falls.
McConnell, B. J.....	Nelsonville.
McGurn, J. S.....	Deceased.
Oldham, Edward.....	Chatsworth.
O'Shea, James.....	Deceased.
Reid, W. D.....	Montpelier, Vt.
Rogers, D. H.....	Gananoque.
Snider, S. H.....	
Symington, T. J.....	Camlachie.
Wallace, David.....	Metcalfe.

1882

Anglin, R. S.....	Omaha.
Cameron, A. D.....	Lancaster.
Cornell, A. P.....	Gravenhurst.
Coutlee, H. N.....	Sharbot Lake.
Denike, G. M.....	Fulton, N. Y.
Dupuis, J. M.....	Philadelphia, Penn.
Garrett, R. W.....	Kingston.
Jarvis, Charles E.....	London.
Knox, Henry.....	Shawville, Que.
Koyl, F. T.....	Ada, Man.
Macdonald, Hugh N.....	Lake Ainslie, C.B.
Mordy, G. A.....	Ashton.
Reeve, John L.....	Clinton.
Rutherford, D. B.....	Morrisburg.
Stewart, J. M.....	Chesley.

1883

Anglin, W. G , M.R.C.S. 1884.....	Kingston.
Clancy, Charles C.....	Port Huron.
Cryan, John.....	Demorestville.
Davis, L. T.....	Nanaimo.
Froiland, Herman M., L.R.C.P. Edin., 1885, Lic.	
Mid., 1883.....	Toronto.

Kidd, John F.....	Ottawa.
Hickey, Daniel C.....	Kingston.
McGhie, George S.....	Elgin.
McMurchy, A.	North Bay.
Moore, Thomas A.....	Westville, N.S.
Page, Thomas A.....	Brockville.
Smith, R.....	Manotick.
Young, W. J.....	Wingham.

1884

Bullis, W. H.	Dresden.
Cartwright, R. C.	Rochester.
Cumberland, Thomas	Deceased.
Duff, H. Ramsay.	Newburg.
Emery, H. J.	Crosswell, Sanilac Co., Mich.
Forrester, Edgar, L.R.C.P. Edin., 1884.	Brockville.
Forin, A. W.	West Duluth, Minn.
Fraser, R. N.	Thamesville.
Foxton, E.	Toronto
Herald, John.	Kingston.
Mackie, D. H.	Belleville.
McCammon, C. Gordon	Deceased.
Stirling, J. G.	Hamilton, Bermuda
Webster, W. J.	White Lake, Aurora Co., Dak.
Williams, Herbert S.	Mount Vernon, Dakota.

1885

Bertram, T. A., L.R.C.S.I., 1886	Dundas.
Clarke, C. W. D.	Tamworth.
Cunningham, Harry C.	Carman, Man.
Dawson, Henry.	Cape Vincent.
Dwyre, Andrew.	Elgin.
Ford, H. B.	Moorwood.
Hooper, E., Lic. Soc. Apoth., 1886.	Kingston.
Kyle, Wm. A.	Lanark.
Roy, Henry.	Chisholm.
Russell, D. H.	Mankato, Minn.
Spankie, Wm.	Wolfe Island.
Stirling, James A.	Pictou.

1886

Beeman, W. C.	
Bruce, F.	New Lothrop, Mich.
Burdett, H. E.	Minneapolis.
Casselmann, J.	North Williamsburg.
Collins, C.	Deceased.
Conerty, J. M.	Winchester.
Cornell, S. S.	Farmersville.
Coy, W., M.R.C.S. 1887.	Chicago.
Creeggan, J. G.	Lyndhurst.
Dame, A. A.	Toronto.
Dixon, M. L.	Frankville.
Donovan, E. I.	Neché, North Dakota.
Foley, D. E.	
Galligan, T. G.	Renfrew.
Hamilton, J. A.	
Hanna, J. E.	Perth.
Heath, F.	Brantford.
Jack, J. G.	
Jamieson, A.	North Gower.

Lane, I. J.	North Williamsburg.
McCardell, E. J.	Wangaratta, Vict., N.S.W.
McLaughlin, E.	Morrisburg.
McVety, A.	Kingston.
Mather, W. M.	Tweed.
Mellow, S. J.	
Mundell, D. E.	Kingston.
Mundell, John	Kingston.
Nimmo, J. H.	Brockville.
Pitblado, C.	
Shaw, J. M.	Mallorytown.
Smith, F. B.	Watertown, N. Y.
Storms, D. G.	Hamilton.
Watts, E. J.	Franktown.
Wright, E. W.	Cataragui.
White, A. N.	Casnovia, N. Y.

1887

Allen, A. G.	Gananoque.
Anderson, J. J.	Winchester Springs.
Anglin, J. V.	Pittsburg, Pa.
Beeman, T. A.	Hastings.
Begg, J.	Richibucto, N. B.
Cameron, Dan.	Arnprior.
Dunlop, J. D.	Alpena, Mich.
Errett, A. J.	Deceased.
Ferguson, A. G.	Bathurst.
Fisher, A. J.	Wiarton.
Freeman, A. E.	Inverary.
Gallagher, M.	Campbellford.
Gibson, A. E.	Oakland, Iowa.
Hart, J. F.	Prescott.
Hart, M. W.	Prescott.
Hay, William	St. Lawrence, N. Y.
Heslop, John E.	Port Dover.
James, M.	Matawa.
McEwen, Ewen	Franktown.
Mabee, J. E.	Odessa.
Maybee, M.	Milford.
Neish, W. D.	Kingston, Jamaica.
Pirie, Alex. F.	Cartego.
Rainstead, H.	Ottawa.
Scales, Thomas.	Deceased.
Thorne, S. H.	Brighton.
Warner, A. F.	Napanee.

1888

Baker, T. C.	Merrickville.
Chamberlain, W. P.	Morrisburg.
Connell, J. C.	Kingston.
Cooke, W. H.	Minneapolis.
Downing, W. H.	Deceased.
Fraser, J. B.	Toronto.
Gillis, A. B.	Bass River, N.S.
Horsey, E. H.	Owen Sound.
Jamieson, D.	South Finch.
Jamieson, T. J.	Kars.
Kovle, F. H.	Lowell, Mass.
Livingston, J. S.	St. Edward, Nebraska.
Mabee, C. G.	Odessa.

Mallory, C. N.....	Escott, Leeds.
Naxwell, W. J.....	Toronto.
McCammon, S. H.....	Kansas City.
McGillivray, T. S.....	Hamilton.
McGrath, E.....	Peterborough.
O'Neil T.....	Trenton.
Pratt, W. F.....	St. Paul, Minn.
Pratt, Wilton.....	Toledo.
Robertson, J. W.....	Hopewell, N.S.
Robinson, R. P.....	Ottawa.
Scott, P. J.....	Southampton.
Smellie, D. McK.....	Madoc.
Walker, A. D.....	Shannonville.
Whitney, A. W.....	Park River, Dak.
Wright, T. A.....	Russell, Manitoba.

1889

Belch, John A.....	
Buchanan, H. M.....	St. Lawrence, N.Y.
Campbell, A. L.....	Rochester.
Chanonhouse, R. C., B.A.....	Eganville.
Cloutier, Felix.....	Crysler.
David, W. C.....	South Bay, Mich.
Drummond, P.....	Iron Mountain, Mich.
Duff, John.....	Harrow, Victoria.
Elliott, Arthur R.....	
Emery, G. F.....	Lansdowne.
Freeland, A.....	
Gardiner, S. H., B A.....	Brooklyn, N.Y.
Grant, Norman, B.A.....	Halifax.
Graham, H. C. W.....	Brewster.
Harkness, F. B.....	North Gower.
Harvie, William D.....	
Hilker, Adam E.....	Jamaica.
Holdcroft, Joseph.....	Inverness, Que.
Johnstone, W. H.....	
Kilborn, Omar L., B.A.....	Toledo.
Lanfear, Henry O.....	Newburg.
Little, W. C.....	Australia.
Mavety, Alex. C.....	Odessa.
McGrath, Michael E.....	Chicago.
McKillop, James T.....	Wardsville.
Mitchell, H. F.....	Lakeville, Indiana.
Northmore, Harold S.....	Bath.
Patterson, James A.....	Port Elgin.
Rankin, W. H.....	Trenton.
Robinson, Andrew.....	
Ryan, Edward.....	Kingston.
Sands, Ernest.....	Harwood.
Snider, Elias T.....	Pelee Island.
Stewart, Alexander.....	Renfrew.
Tillman, H. G.....	Jamaica.
Walker, S. R.....	Wilton.

FELLOWS.

Bethune, Alexander.....	Wingham.....	1874
Bray, John L.....	Chatham.....	1890
Cluness, William B.....	Sacramento, Cal.....	1871
Day, Henry W.....	Trenton.....	1890
Dickson, John R.....	(Deceased).....	1866
Dupuis, Thomas R.....	Kingston.....	1871
Fenwick, Kenneth N.....	Kingston.....	1886
Fowler, Fife, L.R.C.S. Edin., 1846; M.D.		
Marisch Coll., Aberdeen, 1858.....	Kingston.....	1866
Henderson, Donald.....	Winnipeg.....	1886
Horsey, Edward H.....	Chicago.....	1886
Irwin, Chamberlen Arthur.....	Kingston.....	1886
Kennedy, Roderick, L.R.C.S. Edin., 1843,		
M.D. Univ. St. Andrew, 1843.....	Bath.....	1866
Lavell, Michael.....	Kingston.....	1866
Maclean, Donald, M.D. Univ. Edin., 1862.....	Detroit, Mich.....	1866
Mark, Robert.....	Ottawa.....	1871
Matheson, Murdoch.....	Waverly, New South Wales.....	1886
Moore, Vincent H.....	Brockville.....	1890
Neish, James.....	Kingston, Jamaica.....	1874
Oliver, Alfred S.....	Kingston.....	1873
Preston, Robert H.....	Newboro.....	1890
Purdy, Charles W.....	Chicago.....	1886
Reeve, Richard A.....	Toronto.....	1866
Saunders, Herbert J.....	Kingston.....	1871
Sullivan, Michael.....	Kingston.....	1866
Yates, Horatio.....	(Deceased).....	1871
Yates, Octavius.....	(Deceased).....	1871

LICENTIATES.

Abbott, Samuel.....	(Deceased).....	1872
Alexander, James.....	(Deceased).....	1869
Alway, Enoch.....	Rinbrook.....	1860
Bice, Mark.....	Hampton.....	1869
Bigham, Hugh.....	Penelon Falls.....	1867
Bigham, James.....	Warsaw.....	1868
Bruce, Fred.....	Mount Morris, Mich.....	1888
Booth, Donald B.....	Odessa.....	1868
Burgar, C.....	Welland.....	1870
Campbell, Albert L.....	Penfold, N.Y.....	1888
Chaffey, Ellswood.....	Ontario, California.....	1870
Chamberlain, Theodore F.....	Morrisburg.....	1871
Clapham, Edward.....		1868
Close, James.....	Ohio, U.S.....	1873
Coleman, William F.....	Chicago.....	1870
Corbett, Henry T.....	(Deceased).....	1868
Cornell, Charles.....	Farmersville.....	1872
Davis, L. T.....	Nanaimo.....	1883
Davison, Myers.....	Florence.....	1871
Day, Barnabas W.....	San Diego.....	1871
Day, Jonathan.....	(Deceased).....	1881
Dickson, John R., jr.....	(Deceased).....	1866
Dowsley, D. H.....	Kingston.....	1875
Dugdale, John J.....	Montreal.....	1867
Dunlop, James Donald.....	Alpena, Mich.....	1886
Erischen, Hugo.....	Detroit.....	1882
Erly, Francis W. J.....	(Deceased).....	1868
File, Albert J.....	Ameliasburg.....	1869

Frailick, W. G.	New York City.	1887
Fraser, Allen H.	(Deceased)	1867
Graham, William J.	Bothwell	1873
Gunsolus, Kenneth	Detroit, Mich.	1874
Hall, Wm.	Qu'Appelle.	1883
Hall, John D.	(Deceased)	1878
Harvey, Leander	Watford	1880
Harvey, W. D.	Galt.	1867
Hay, William, B.A.	St. Lawrence, N. Y.	1887
Hendry, George	(Deceased)	1869
Herriman, Weston Leroy	Lindsay.	1869
Higginbotham, A.	(Deceased)	1868
Horsey, Edward H.	Chicagoo	1871
Houston, Wm. R.	Chatham	1871
Hutcheson, John	Meaford	1869
Johnstone, David	Kincardine.	1869
Keith, Sylvanus	New Glasgow, N.S.	1886
Kidd, Edward	Picton	1881
Knight, John H.		1880
Lavell, Charles H.	(Deceased)	1873
Lavell, William A.	Smith's Falls.	1880
Maclean Archibald	Ann Arbor.	1880
Mark, Robert	Ottawa.	1867
McAmmond, J. F.		1889
McPhee, J. H.	Pembroke.	1886
McDowell, John	(Deceased)	1880
Meadows, R. W.	H. M. Service.	1866
Meagher, Augustus D.	(Deceased)	1869
Mitchell, Charles F.		1890
Mitchell, H. F.	Lakeville, Indiana	1889
Munro, David	Perth	1867
Murphy, H. J.	Chatham	1867
Maclean, Donald	Detroit	1868
McLennan, Alexander S.	Chicago	1873
Nesbitt, Edward	(Deceased)	1868
Newell, James	Wyoming.	1869
Nimmo, John H.	Brockville.	1886
Noel, J. V.	(Deceased)	1867
Oliver, John K.	(Deceased)	1868
O'Sullivan, John	(Deceased)	1868
Patterson, Richard	Langford	1885
Patterson, James B.	Port Elgin.	1869
Potts, James McCumming.	Belleville	1888
Price, Robinson B.	Kingston.	1871
Purdy, Charles W.	Chicago.	1869
Reid, John D.	Cardinal.	1890
Rourke, Francis	Dublin, Ont.	1867
Scott, William H. S.	Southampton.	1890
Spear, Hugh	Toronto.	1868
Stark, Alexander.	Berwick	1880
Stewart, Alexander J.	Angus	1869
Symington, Thomas	Camlachie.	1881
Tait, Stuart.	Kingston, Jamaica.	1890
Thibodo Robert	Winnipeg, Man.	1868
Tillman, Harry G.	Kingston, Jamaica.	1889
VanAllen, John R.	Kansas City.	1870
Vanvlack, Gilbert	(Deceased)	1870
Wilson, Charles J. C.	Montreal.	1869
Wafer, Francis W.	(Deceased)	1867
Young, David	Manitoba	1871

PASS LISTS IN MEDICINE, 1889-90.

PHYSIOLOGY.

Balfe, Wood I., McCammon, Scott T. B., McColl, Lent, Echlen, Wheeler, Kemp, Adamson, Barber, Hare, Haig, Bourns, Stevens, White, Gibson, Robinson, Spankie, McLennan, Stewart, Douglas, Oronhyatekha, Emmons, Lavers, Wood W. G., Denant, Bermingham, Smith, Scott W. H., Neish.

MATERIA MEDICA.

Oldham, Genge, Empey, Wood, Gardiner, Pirie, Echlen, Balfe, Brady, McLennan D. N., Stewart, McCuaig, Emmons, Suter, McColl, Hare, Lavers, Lockhart, Haig, Robinson, Gibson, Phelan, Wheeler, McLennan J. A., Meacham, White, Smith.

ANATOMY.

Lockhart, Scott, McColl, Ryan, Wood, Oldham, Lent, Balfe, Echlen, McCammon, McCuaig, Robinson, White, Spankie, Stackhouse, Gibson J. C., Genge, Brady, Meacham, Denant, Gibson J. F., Bermingham, Johnston, McLennan J. A., McLennan D. N., Stewart, Haig, Mitchell, Hare, Stevens, Wheeler, Oronhyatekha, Foley, Smith, Parkyn, Lavers, Barber, Ogilvie.

HISTOLOGY.

Minnes, Wheeler, White, Hare, Wood, Kemp, Denant, Johnston, Scott, Adamson, Haig, Robinson E. B., Mitchell, Lavers, Echlen, Lent, Bourns, Gibson, Douglas, Barber, Stewart, Robinson R. R.

SANITARY SCIENCE.

Cameron, Mitchell, Miller, Lockhart, Robinson, Ryan, Cunningham, Dixon, Patterson, Gardiner, Herald, Scott, Watts, Gray, Bell, Kellock, Lavers.

MEDICAL JURISPRUDENCE.

Wood, Ryan, Robinson, Cameron, Hayunga, Morgan, Balfe, Lockhart, Dixon, Gardiner, Patterson, McLennan, Herald W., Cunningham, Herald D., Mitchell, Gray, Bell, Kellock, Lavers.

